Amendments to the Claims:

Please cancel claims 40 and 41.

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-23. (previously canceled)
- 24. (previously added) A lighting system for graphics processing, comprising:
- (a) at least one input buffer adapted for being coupled to a transform system for receiving vertex data therefrom;
 - (b) a multiplication logic unit coupled to the at least one input buffer;
- (c) an arithmetic logic unit coupled to the at least one input buffer and the multiplication logic unit;
 - (d) a register unit coupled to the arithmetic logic unit; and
- (e) a lighting logic unit coupled to the arithmetic logic unit, the at least one input buffer, and the multiplication logic unit.
- 25. (previously added) The system as recited in claim 24, wherein the multiplication logic unit has a feedback loop coupled to an input thereof.
- 26. (previously added) The system as recited in claim 24, wherein the lighting logic unit is coupled to the multiplication logic unit via a conversion module adapted for converting scalar vertex data to vector vertex data.

- 27. (previously added) The system as recited in claim 24, wherein the arithmetic logic unit and the multiplication logic unit include multiplexers.
- 28. (previously added) The system as recited in claim 24, wherein the multiplication logic unit includes three multipliers coupled in parallel.
- 29. (previously added) The system as recited in claim 24, wherein the arithmetic logic unit includes three adders coupled in series and parallel.
- 30. (previously added) A lighting system for graphics processing, comprising:
- (a) at least one input buffer adapted for being coupled to a transform system for receiving vertex data therefrom;
 - (b) a multiplication logic unit coupled to the at least one input buffer;
- (c) an arithmetic logic unit coupled to the at least one input buffer and the multiplication logic unit;
- (d) a lighting logic unit coupled to the arithmetic logic unit, the at least one input buffer, and the multiplication logic unit; and
- (e) memory coupled to the multiplication logic unit and the arithmetic logic unit.
- 31. (previously added) The system as recited in claim 30, wherein the memory includes a plurality of constants for processing the vertex data.

- 32. (previously added) The system as recited in claim 30, wherein the memory has a read terminal coupled to the multiplication logic unit.
- 33. (previously added) The system as recited in claim 30, wherein the memory has a write terminal coupled to the arithmetic logic unit.
- 34. (previously added) A lighting system for graphics processing, comprising:
 - (a) a multiplication logic unit;
 - (b) an arithmetic logic unit coupled to the multiplication logic unit;
 - (c) a register unit coupled to the arithmetic logic unit;
- (d) a lighting logic unit coupled to the arithmetic logic unit and the multiplication logic unit; and
- (e) memory coupled to the multiplication logic unit and the arithmetic logic unit.
- 35. (previously added) A lighting system for graphics processing, comprising:
- (a) at least one input buffer adapted for being coupled to a transform system for receiving vertex data therefrom; and
 - (b) a lighting logic unit adapted for receiving the vertex data;
- (c) wherein the lighting logic unit is capable of setting a flag upon the vertex data satisfying predetermined criteria.

36-39. (previously canceled)

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- 40. (canceled by this response)
- 41. (canceled by this response)